

General purpose structural steels

General purpose structural steel is same with common carbon structural and high strength low alloy steel actually . Just the former us called by it's application, the later by it's Elements and performance.

General purpose structural steel is usually used for commercial & industrial building structure: pre-engineered buildings, pre-fabricated buildings, warehouses, car parks, workshops, sports stadiums. Structural [steel plates](#) for multi-storey steel frame structures, airport hangars, railway stations structure, shopping malls etc.. High strength low alloy heavy plates for bridge construction. Plate steel for construction of railway & road vehicle chassis.

The main steel grades of [General purpose structural steel plates](#) are:

Material #: 1.0035, 1.0037, 1.0038, 1.0116, 1.0117, 1.0044, 1.0143, 1.0144, 1.0145, 1.0045, 1.0553, 1.057, 1.0577, 1.0595, 1.0596, 1.005, 1.006, 1.007

EN 10025: S185, S235JR, [S235JRG2](#), S235J2G3, [S235J2G4](#), S275JR, S275JO, S275J2G3, S275J2G4, S355JR, S355JO, S355J2G3, S355J2G4, S355K2G3, S355K2G4, E295, E335, [E360](#)

DIN 17100: St 33, St 37-2, RSt 37-2, St 37-3 N, St 44-2, St 44-3 U, St 44-3 N, St 52-3 U, St 52-3 N, St 50-2, St 60-2, St 70-2.

ASTM: A 283 B - A 569 CQ, A 283 C - A 570 Gr. 33, A 283 D - A 36, A 578 Gr. 70, A 633 Gr. A, A 572 Gr. 50 - A 678 Gr. A, A 441.

JIS G3101: SS 330, SS 400, SS 490, SS 500.

Material #	EN 10025	DIN 17100	NFA 35-501	UNI 7070	BS 4360	UNE 36.080	ASTM	JIS G3101
1.0035	S185	St 33	A 33	Fe 320		A 310-0	A 283 B - A 569 CQ	SS 330
1.0037	S235JR	St 37-2	E 24-2	Fe 360 B	40 A		A 283 C - A 570 Gr. 33	
1.0038	S235JRG2	RSt 37-2	E 24-2 NE		40 B	AE 235 B-FN		

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1.0116	S235J2G3	St 37-3 N	E 24-4	Fe 360 D	40 D	AE 235 D		
1.0117	S235J2G4							
1.0044	S275JR	St 44-2	E 28-2	Fe 430 B	43 B	AE 275 B	A 283 D - A 36	SS 400
1.0143	S275JO	St 44-3 U	E 28-3	Fe 430 C	43 C	AE 275 C	A 578 Gr. 70	
1.0144	S275J2G3	St 44-3 N	E 28-4	Fe 430 D	43 D	AE 275 D	A 633 Gr. A	
1.0145	S275J2G4							
1.0045	S355JR		E 36-2	Fe 510 B	50 B	AE 355 B	A 572 Gr. 50 - A 678 Gr. A	SS 490
1.0553	S355JO	St 52-3 U	E 36-3	Fe 510 C	50 C	AE 355 C	A 441	
1.057	S355J2G3	St 52-3 N		Fe 510 D	50 D	AE 355 D		
1.0577	S355J2G4							
1.0595	S355K2G3		E 36-4		50 DD			
1.0596	S355K2G4							
1.005	E295	St 50-2	A 50-2	Fe 490		A 490		SS 500
1.006	E335	St 60-2	A 60-2	Fe 590		A 590		
1.007	E360	St 70-2	A 70-2	Fe 690		A 690		

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